

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

NOTICE OF ALLOWANCE AND FEE(S) DUE

7590

12/16/2002

Dike, Bronstein, Roberts Roberts & cushman intellectual property pratice groups Edwards & Angell p.o..box 9169 BOSTON, MA 02209

EXAMINER

GAMBEL, PHILLIP

ART UNIT CLASS-SUBCLASS

424-093700

1644

DATE MAILED: 12/16/2002

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/228,020	01/11/1999	JEFFREY M. ISNER	46963-DIV	7379

TITLE OF INVENTION: METHODS FOR REGULATING ANGIOGENESIS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1280	\$0	\$1280	03/17/2003

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

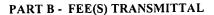
B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.

□ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Box ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



Complete and send this form, together with applicable fee(s), to: Mail Box ISSUE FEE Commissioner for Patents

Washington, D.C. 20231 (703)746-4000

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 4 should be completed where

indicated unless corrected be	low or directed otherwis	se in Block I, by (a) spe	ecitying a new co	rrespondence addi-	ess; and/or (b) indicating a separ	ate TEE ADDICESS TO
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1) 7590 12/16/2002			Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or			
Dike, Bronstein,R	oberts Roberts & c	ushman		formal drawing, r	must have its own certificate of ma	ailing or transmission.
intellectual property pratice groups Edwards & Angell p.obox 9169 BOSTON, MA 02209				Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited wit United States Postal Service with sufficient postage for first class mail envelope addressed to the Box Issue Fee address above, or being facs transmitted to the USPTO, on the date indicated below.		
BOSTOT, WIT 022						(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	APPLICATION NO. FILING DATE FIRST NAMED INV		ST NAMED INVEN	TOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/228,020	01/11/1999	JI	EFFREY M. ISNE	R	46963-DIV	7379
TITLE OF INVENTION: MI	ETHODS FOR REGULA	TING ANGIOGENESIS	3			
				<u> </u>		
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nonprovisional	NO	\$1280		\$0	\$1280	03/17/2003
EXAMIN	ER	ART UNIT	CLASS-SUBCI	ASS		
GAMBEL, P	HILLIP	1644	424-09370	0		
1. Change of correspondence CFR 1.363).	ce address or indication of	f "Fee Address" (37	the names of u	on the patent from p to 3 registered p	atent attorneys	
☐ Change of corresponder Address form PTO/SB/12	nce address (or Change of 2) attached.	f Correspondence	or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2			
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.			registered patent attorneys or agents. If no name is listed, no name will be printed.			
3. ASSIGNEE NAME AND	RESIDENCE DATA TO	BE PRINTED ON THE	PATENT (print of	or type)		
PLEASE NOTE: Unless ar been previously submitted to (A) NAME OF ASSIGNEE	to the USPTO or is being	submitted under separate	e cover. Complete	patent. Inclusion of on of this form is N Y and STATE OR	f assignee data is only appropriate OT a substitute for filing an assig COUNTRY)	to when an assignment has nment.
Please check the appropriate	assignee category or cate	gories (will not be printe	ed on the patent)	individual	☐ corporation or other private gr	oup entity 🚨 government
4a. The following fee(s) are	enclosed:		yment of Fee(s):			
l lissue Fee			check in the amount of the fee(s) is enclosed. yment by credit card. Form PTO-2038 is attached.			
Publication ree		e Commissioner is hereby authorized by charge the required fee(s), or credit any overpayment, to				
Advance Order - # of Co	·	Depos	it Account Number	er	(enclose an extra copy of fills i	
Commissioner for Patents is	requested to apply the Iss	sue Fee and Publication F	ee (if any) or to re	e-apply any previo	usly paid issue fee to the applicati	on identified above.
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and Publication Fee (if required) will not be accepted other than the applicant; a registered attorney or agent; or the assignee or interest as shown by the records of the United States Patent and Trademark Office.			Office.			
This collection of informa obtain or retain a benefit application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing t Patent and Trademark Off NOT SEND FEES OR Commissioner for Patents,	the amount of time yo his burden, should be se ice, U.S. Department of of COMPLETED FORM	FR 1.311. The informate of file (and by the USP) L 122 and 37 CFR 1.14. g gathering, preparing, as will vary depending up u require to complete int to the Chief Informat Commerce, Washington, S TO THIS ADDRE	ion is required to O is process) an This collection is not submitting the on the individual this form and/or cion Officer, U.S. D.C. 20231. DO SS. SEND TO:	S.		
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UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231 www.uspto.gov

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09/228,020	01/11/1999	JEFFREY M. ISNER	46963-DIV	7379		
75	7590 12/16/2002			EXAMINER		
Dike, Bronstein, Roberts Roberts & cushman			GAMBEL, PHILLIP			
intellectual property pratice groups Edwards & Angell p.obox 9169 BOSTON, MA 02209		ART UNIT	PAPER NUMBER			
			1644			
UNITED STATES			DATE MAILED: 12/16/2002			

Determination of Patent Term Extension under 35 U.S.C. 154 (b) (application filed after June 7, 1995 but prior to May 29, 2000)

The patent term extension is 0 days. Any patent to issue from the above identified application will include an indication of the 0 day extension on the front page.

If a continued prosecution application (CPA) was filed in the above-identified application, the filing date that determines patent term extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system. (http://pair.uspto.gov)

Any questions regarding the patent term extension or adjustment determination should be directed to the Office of Patent Legal Administration at (703)305-1383.



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intellectual property pratice groups Edwards & Angell			ART UNIT	PAPER NUMBER
p.obox 9169			1644	
BOSTON, MA 02209 UNITED STATES			DATE MAILED: 12/16/2002	

Notice of Fee Increase on January 1, 2003

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after January 1, 2003, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" since there will be an increase in fees effective on January 1, 2003. See Revision of Patent and Trademark Fees for Fiscal Year 2003; Final Rule, 67 Fed. Reg. 70847, 70849 (November 27, 2002).

The current fee schedule is accessible from: http://www.uspto.gov/main/howtofees.htm.

If the issue fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due," but not the correct amount in view of the fee increase, a "Notice to Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice to Pay Balance of Issue Fee," if the response to the Notice of Allowance and Fee(s) due form is to be filed on or after January 1, 2003 (or mailed with a certificate of mailing on or after January 1, 2003), the issue fee paid should be the fee that is required at the time the fee is paid. If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously paid issue fee should be paid. See Manual of Patent Examining Procedure, Section 1308.01 (Eighth Edition, August 2001).

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

Application No.

Applicant(s)

Notice of Allowability

| OP | 128020 |
| Examiner

JSUER Art Unit

GAMBEL

1644

22/F

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. The initiative of the Office or upon petition by the applicant. See 37 CFR 1.3	communication will be mailed in due course. is application is subject to withdrawal from issue at 13 and MPEP 1308.
1. This communication is responsive to $\frac{23/02}{12}$, $\frac{12}{12}$. The allowed claim(s) is/are $\frac{20}{12}$, $\frac{23}{12}$, $\frac{39}{12}$, $\frac{91}{12}$, $\frac{91}{12}$	5/02
2. The allowed claim(s) is/are 20, 23-39, 41, 42, 44- 4	7 RENUMBERED 1-29
3. The drawings filed on are accepted by the	
4. Acknowledgement is made of a claim for foreign priority under 35	i U.S.C. § 119(a)-(d).
a) \square All b) \square Some* c) \square None of the:	
1. Certified copies of the priority documents have been received	ed.
2. Certified copies of the priority documents have been received.	ed in Application No
 Copies of the certified copies of the priority documents hav application from the International Bureau (PCT Rule 17.2 	e been received in this national stage (a)).
*Certified copies not received:	<u> </u>
5. Acknowledgement is made of a claim for domestic priority under	35 U.S.C. § 119(e) (to a provisional application).
(a) \square The translation of the foreign language provisional application	has been received.
6. Acknowledgement is made of a claim for domestic priority under	35 U.S.C. §§ 120 and/or 121.
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communated below. Failure to timely comply will result in ABANDONMENT of this EXTENDABLE.	ication to file a reply complying with the requirements application. THIS THREE-MONTH PERIOD IS NOT
7. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) w	attached EXAMINER'S AMENDMENT or NOTICE OF the dath or declaration is deficient.
8. CORRECTED DRAWINGS must be submitted.	
(a) including changes required by the Notice of Draftsperson's Pa	tent Drawing Review (PTO-948) attached
1) 🕒 hereto or 2) 🗌 to Paper No	4
(b) including changes required by the proposed drawing correction approved by the examiner.	n filed, which has been
(c) including changes required by the attached Examiner's Amend Paper No.	dment/Comment or in the Office action of
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be each sheet. The drawings should be filed as a separate paper with a transmitta	e written on the drawings in the top margin (not the back) of letter addressed to the Official Draftsperson.
9. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGI attached Examiner's comment regarding REQUIREMENT FOR THE	CAL MATERIAL must be submitted. Note the DEPOSIT OF BIOLOGICAL MATERIAL.
Attachment(s)	
1 Notice of References Cited (PTO-892)	2 Notice of Informal Patent Application (PTO-152)
Notice of Draftsperson's Patent Drawing Review (PTO-948)	4 Interview Summary (PTO-413), Paper No 6 Examiner's Amendment/Comment
5 Information Disclosure Statement(s) (PTO-1449), Paper No(s).	8 Examiner's Amendment/Comment 8 Examiner's Statement of Reasons for Allowance
7 Examiner's Comment Regarding Requirement for Deposit of Biological Material	O E EXAMINER & Statement of Reasons for Anomalice
9 Other	

Serial No. 09/288020 Art Unit 1644

FI

DETAILED ACTION

 Applicant's amendment, filed 9/23/02 (Paper No. 19), has been entered. Claims 1-19, 21, 22, 40, 43 and 48-64 have been canceled. Claims 20 has been amended.

Applicant's amendment, filed 12/5/02 (Paper No. 21), has been entered. Claim 27 has been amended.

Claims 20, 23-39, 41, 42 and 44-47 are pending.

EXAMINER'S AMENDMENT

- 2. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R. § 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.
- 3. Authorization for this Examiner's Amendment was given in a telephone interview with Diane Rees on 12/5/02.
- 4. Amend page 1 of the specification by inserting the following after the Title:

This application is a divisional of USSN 08/744,882, now U.S. Patent No. 5,980,887.

REASONS FOR ALLOWANCE

5. The following is an Examiner's Statement of Reasons for Allowance:

Upon reconsideration of applicant's arguments including the reference to U.S. Patent No. 5,980,887 as well as Freedman et al. (J. Mol. Cardiol 33: 379-393, 2001), Kalka et al. (Cir Res. 86: 1198-1202, 2000) and Iwaguro et al. (Circulation 105: 732-738, 2002); the previous rejection under 35 C.F.R. § 112, first paragraph, has been withdrawn. Accordingly, the instant claims are deemed allowable.

6. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Serial No. 09/288020 Art Unit 1644

EXAMINER'S COMMENTS

7. Formal drawings have been submitted which fail to comply with 37 CFR 1.84. Please see the enclosed form PTO-948.

INFORMATION ON HOW TO EFFECT DRAWING CHANGES

A. Correction of Informalities -- 37 CFR 1.85

New corrected drawings must be filed with the changes incorporated therein. Identifying indicia, if provided, should include the title of the invention, inventor's name, and application number, or docket number (if any) if an application number has not been assigned to the application. If this information is provided, it must be placed on the front of each sheet and centered within the top margin. If corrected drawings are required in a Notice of Allowability (PTOL-37), the new drawings MUST be filed within the THREE MONTH shortened statutory period set for reply in the "Notice of Allowability." Extensions of time may NOT be obtained under the provisions of 37 CFR 1.136 for filing the corrected drawings after the mailing of a Notice of Allowability. The drawings should be filed as a separate paper with a transmittal letter addressed to the Official Draftsperson.

B. Corrections other than Informalities Noted by Draftsperson on form PTO-948.

All changes to the drawings, other than informalities noted by the Draftsperson, MUST be made in the same manner as above except that, normally, a highlighted (preferably red ink) sketch of the changes to be incorporated into the new drawings MUST be approved by the examiner before the application will be allowed. No changes will be permitted to be made, other than correction of informalities, unless the examiner has approved the proposed changes.

Timing of Corrections

Applicant is required to submit acceptable corrected drawings within the time period set in the Office action. See 37 CFR 1.185(a). Failure to take corrective action within the set (or extended) period will result in ABANDONMENT of the application.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Phillip Gambel whose telephone number is (703) 308-3997. The examiner can normally be reached Monday through Thursday from 7:30 am to 6:00 pm. A message may be left on the examiner's voice mail service. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina Chan can be reached on (703) 308-3973. Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center 1600 receptionist whose telephone number is (703) 308-0196.

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Serial No. 09/288020 Art Unit 1644

Papers related to this application may be submitted to Technology Center 1600 by facsimile transmission. Papers should be faxed to Technology Center 1600 via the PTO Fax Center located in Crystal Mall 1. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG 30 (November 15, 1989). The CM1 Fax Center telephone number is (703) 305-3014.

PhicupGambel, Ph.D.
Primary Examiner
Technology Center 1600
December 5, 2002

